TEJUS

DETERMINATION OF RATE OF SPREAD TACK COAT

Name of Work :	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor :	Sri.A G Narayana Swamy.
Date of Testing :	15-06-2022
Type of Mix :	Tack coat
Sample I/D :	3
Location :	Lakhsmayya garden main road

Determination	**Unit**	**Test No**		
		1	**2**	**3**
Location :	**Chainage**	**@15**	**@30**	**@50**
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.784	0.794	0.802
Final weight of plate after application of tack Coat (c)	Kg	0.807	0.817	0.825
Weight of tack Coat (d=c-b)	Kg	0.023	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.253	0.253	0.254
Average	Kg/sq.m	0.254		
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**		

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Asst. Executive Engineer
Dasarahalli Division
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BBMP, Bangalore - 92

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TEJUS

DETERMINATION OF RATE OF SPREAD TACK COAT

Name of Work :	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor :	Sri.A G Narayana Swamy.
Date of Testing :	15-06-2022
Type of Mix :	Tack coat
Sample I/D :	3
Location :	Lakhsmayya garden main road

Determination	Unit	Test No		
		1	2	3
Location :	Chainage	@15	@30	@50
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.784	0.794	0.802
Final weight of plate after application of tack Coat (c)	Kg	0.807	0.817	0.825
Weight of tack Coat (d=c-b)	Kg	0.023	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.253	0.253	0.254
Average	Kg/sq.m	0.254		
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**		

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DETERMINATION OF RATE OF SPREAD TACK COAT

Name of Work :	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor :	Sri.A G Narayana Swamy.
Date of Testing :	15-06-2022
Type of Mix :	Tack coat
Sample I/D :	2
Location :	Srinivasa garden 1st cross road

Determination	**Unit**	**Test No**		
		1	2	3
Location :	**Chainage**	**@30**	**@45**	**@65**
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.782	0.796	0.807
Final weight of plate after application of tack Coat (c)	Kg	0.805	0.819	0.830
Weight of tack Coat (d=c-b)	Kg	0.023	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.253	0.253	0.254
Average	Kg/sq.m	0.254		
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**		

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BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

Name of Work	:	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri.A G Narayana Swamy.
Date of Testing	:	15-06-2022
Type of Mix	:	BC
Sample I/D	:	BC4

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	898	953
2. Weight of Mixture after extraction, g	850	901
3. Weight of Bitumen	48	52
4. Weight of filter paper before extraction, g	2.00	2.15
5. Weight of filter paper after extraction, g	4.10	4.00
6. Weight of fines, g	2.10	1.85
7. Weight of Bitumen & fines	50.10	53.85
8. Bitumen content in %	5.58	5.65
9. Average Bitumen content in %	**5.61**	
10. Minimum Bitumen content in %	**5.40**	

GRADATION FOR BC AFTER EXTRACTION
(As per MORT&H 500-18,Grading-2)

Sample Location:	Srinivasa garden 1st cross road	Date of Sampling:	**15-06-2022**
Type of material & Purpose:	BC	Date of testing:	**15-06-2022**
		Oven Dry Wt.(gms):	850.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	81	81.0	9.53	90.47	79 - 100
9.50	122	203.0	23.88	76.12	71 - 95
4.75	102	305.0	35.88	64.12	53 - 71
2.360	112	417.0	49.06	50.94	42 - 58
1.180	105	522.0	61.41	38.59	34 - 48
0.600	75	597.0	70.24	29.76	26 - 38
0.300	78	675.0	79.41	20.59	18 - 28
0.150	49	724.0	85.18	14.82	12 - 20
0.075	68	792.0	93.18	6.82	4 - 10
Pan	58.0	850.0			
Total	850.0				

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BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

Name of Work	:	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri.A G Narayana Swamy.
Date of Testing	:	15-06-2022
Type of Mix	:	BC
Sample I/D	:	BC5

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	965	928
2. Weight of Mixture after extraction, g	914	878
3. Weight of Bitumen	51	50
4. Weight of filter paper before extraction, g	2.00	2.15
5. Weight of filter paper after extraction, g	4.00	4.00
6. Weight of fines, g	2.00	1.85
7. Weight of Bitumen & fines	53.00	51.85
8. Bitumen content in %	5.49	5.59
9. Average Bitumen content in %	**5.54**	
10. Minimum Bitumen content in %	**5.40**	

GRADATION FOR BC AFTER EXTRACTION
(As per MORT&H 500-18,Grading-2)

Sample Location:	Lakhsmayya garden main road	Date of Sampling:	15-06-2022
		Date of testing:	15-06-2022
Type of material & Purpose:	BC	Oven Dry Wt.(gms):	914.0

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	83	83.0	9.08	90.92	79 - 100
9.50	109	192.0	21.01	78.99	71 - 95
4.75	95	287.0	31.40	68.60	53 - 71
2.360	122	409.0	44.75	55.25	42 - 58
1.180	114	523.0	57.22	42.78	34 - 48
0.600	92	615.0	67.29	32.71	26 - 38
0.300	74	689.0	75.38	24.62	18 - 28
0.150	70	759.0	83.04	16.96	12 - 20
0.075	95	854.0	93.44	6.56	4 - 10
Pan	60.0	914.0			
Total	914.0				

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Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G Narayana Swamy.

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	BC	**Date of Sampling**	**15-06-2022**
Sample Location	At plant	**Date of Testing**	**15-06-2022**

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	374.00	361.00	343.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	282.00	271.00	257.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	92.00	90.00	86.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	24.60	24.93	25.07	
5	Average Aggregate impact value	(%)	24.87			Max - 30 %

Remarks : Satisfactory / Not Satisfactory

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Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G Narayana Swamy.

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	BC		**Proposed Use**	BC
Sample Location	At plant		**Date of Sampling**	15-06-2022
			Date of Testing	15-06-2022

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	951	85	962	72
16.0	12.5	1308	112	1241	120
12.5	10.0	523	78	436	58
10.0	6.3	498	68	425	60
Total		**3280**	**343**	**3064**	**310**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.46
Elongation Index(%):	10.12
Combined FI+EL (%)	20.57

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Test Report on Compressive Strength of Concrete Cubes

Project	Development works to be under taken in ward no.5 of BBMP around solidwaste disposal processing units bellalli bagaluru and kattigenalli , byatarayanapura constituncy ,
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri.A G. Narayana Swamy.
Location:	Cement
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Dwaraka nagar main road

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	17-06-2022	24-06-2022	7 days	8.842	22500	412	18.31	18.84
2	17-06-2022	24-06-2022	7 days	8.682	22500	410	18.22	
3	17-06-2022	24-06-2022	7 days	6.746	22500	450	20.00	

Remarks : ✓ Satisfactory / Not Satisfactory

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DETERMINATION OF RATE OF SPREAD TACK COAT				
Name of Work :	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.			
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE			
Consultant :	M/s Tejus Consultants			
Contractor :	Sri.A G Narayana Swamy.			
Date of Testing :	20-06-2022			
Type of Mix :	Tack coat			
Sample I/D :	4			
Location :	Noor nagar main road			
Determination	**Unit**	**Test No**		
		1	2	3
Loacation	**Chainage**	**@30**	**@45**	**@75**
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.790	0.805	0.778
Final weight of plate after application of tack Coat (c)	Kg	0.813	0.828	0.801
Weight of tack Coat (d=c-b)	Kg	0.023	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.252	0.254	0.252
Average	Kg/sq.m	0.253		
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**		

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BITUMEN CONTENT AND GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM MIX

Name of Work	:	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	:	Sri.A G Narayana Swamy.
Date of Testing	:	20-06-2022
Type of Mix	:	DBM
Sample I/D	:	DBM-6

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	883	939
2. Weight of Mixture after extraction, g	844	899
3. Weight of Bitumen	39	40
4. Weight of filter paper before extraction, g	2.00	2.00
5. Weight of filter paper after extraction, g	4.00	4.00
6. Weight of fines, g	2.00	2.00
7. Weight of Bitumen & fines	41.00	42.00
8. Bitumen content in %	4.64	4.47
9. Average Bitumen content in %	4.56	
10. Minimum Bitumen content in %	4.50	

GRADATION FOR DBM AFTER EXTRACTION

(As per MORT&H 500-10 Grading-2)

Sample Location:	Babunagar main road	**Date of Sampling:**	20-06-2022
		Date of testing:	20-06-2022
Type of material & Purpose:	DBM	**Oven Dry Wt.(gms):**	844

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
37.50	0.0	0.0	0.00	100.00	100.00
26.50	41.0	41.0	4.86	95.14	90-100
19.00	133.0	174.0	20.62	79.38	71-95
13.20	113.0	287.0	34.00	66.00	56-80
4.750	165.0	452.0	53.55	46.45	38-54
2.360	99.0	551.0	65.28	34.72	28-42
0.300	146.0	697.0	82.58	17.42	7-21
0.075	98.0	795.0	94.19	5.81	2-8
Pan	49.0	844.0			
Total	844.0				

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Asst. Executive Engineer
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BITUMEN CONTENT AND GRADATION DETERMINATION OF DENSE BITUMINOUS MACADAM MIX

Name of Work		Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client		Bruhat Bengaluru Mahanagara Palike
Consultant		TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor		Sri.A G Narayana Swamy
Date of Testing		20-06-2022
Type of Mix		DBM
Sample I/D		DBM-5

DETERMINATION OF BITUMEN CONTENT

Description	Trail 1	Trail 2
1. Weight of Mixture before extraction, g	897	936
2. Weight of Mixture after extraction, g	856	894
3. Weight of Bitumen	41	42
4. Weight of filter paper before extraction, g	2.00	2.00
5. Weight of filter paper after extraction, g	4.00	4.00
6. Weight of fines, g	2.00	2.00
7. Weight of Bitumen & fines	43.00	44.00
8. Bitumen content in %	4.79	4.70
9. Average Bitumen content in %	4.75	
10. Minimum Bitumen content in %	4.50	

GRADATION FOR DBM AFTER EXTRACTION

(As per MORT&H 500-10,Grading-2)

Sample Location:	Noor nagar main road	**Date of Sampling:**	20-06-2022
		Date of testing:	20-06-2022
Type of material & Purpose:	DBM	**Oven Dry Wt.(gms):**	856

IS Sieve size in mm	Weight retained	Cummulative weight retained (gm)	Cummulative % of retained	Cummulative % of passing	Specification limits
37.50	0.0	0.0	0.00	100.00	100.00
26.501	49.0	49.0	5.72	94.28	90-100
19.00	121.0	170.0	19.86	80.14	71-95
13.20	116.0	286.0	33.41	66.59	56-80
4.750	160.0	446.0	52.10	47.90	38-54
2.360	104.0	550.0	64.25	35.75	28-42
0.300	183.0	733.0	85.63	14.37	7-21
0.075	65.0	798.0	93.22	6.78	2-8
Pan	62.0	860.0			
Total	856.0				

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Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G Narayana Swamy.

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	DBM	**Date of Sampling**	20-06-2022
Sample Location	At plant	**Date of Testing**	20-06-2022

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	366.00	370.00	385.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	283.00	273.00	292.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	83.00	97.00	93.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	22.68	26.22	23.76	
5	Average Aggregate impact value	(%)	24.22			Max - 30 %

Remarks : ✓ Satisfactory / Not Satisfactory

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3. Any Query regarding the report must be reported reported within 15days from the date of testing.
4.The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Asst. Executive Engineer
Project Division No. 52
BBMP, Bangalore

TEJUS CONSULTANTS
Consultant's Representative

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Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G Narayana Swamy.

FLAKINESS AND ELONGATION INDICES (IS 2386, PART 1)

Type of Material	DBM	Proposed Use	DBM
Sample Location	At plant	Date of Sampling	20-06-2022
		Date of Testing	20-06-2022

Size of aggregate		Flakiness Index		Elongation Index	
Passing through IS sieve, mm	Retained on IS sieve, mm	Total wt. of aggregate retained on sieves (A) gms.	Wt. of aggregate passing from Flakiness gauge (B) gms	Wt. of aggregate retained on Flakiness gauge (C) gms	Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	7390	679	7063	341
31.5	25.0	4260	234	3568	285
25.0	20.0	2463	248	1865	220
20.0	16.0	1540	330	966	261
16.0	12.5	588	111	460	196
12.5	10.0	498	72	275	95
10.0	6.3	139	84	84	65
Total		16878	1758	14281	1463

Results

Flakiness Index(%):	10.42
Elongation Index(%):	10.24
Combined FI+EL (%)	20.66

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Asst. Executive Engineer
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Project	Developments works to be under taken in Ward No.65 of BBMP around Solid Waste Disposal Processing units Bellahalli, Nagadevi and Kariganahalli Byrasandra Constituency.
Client	Brahat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A.G.Narayana Swamy.

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	RC	Date of Sampling	21-06-2022
Sample Location	At plant	Date of Testing	21-06-2022

Sl. No.	Description		Test No.			Spec Limit (%)
			1	2	3	
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(W4)	376.00	363.00	361.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(W5)	282.00	271.00	257.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(W6)	94.00	92.00	84.00	
4	Aggregate Impact Value (%)	(W6/W4)*100	25.00	25.34	24.63	
5	Average Aggregate impact value	(%)		24.99		Max - 30 %

Remarks : ✓ Satisfactory / Not Satisfactory

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BBMP, Bangalore - 64

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Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri A G Narayana Swamy.

FLAKINESS AND ELONGATION INDICES (IS 2386, PART I)

Type of Material	BC		**Proposed Use**	BC
Sample Location	At plant		**Date of Sampling**	21-06-2022
			Date of Testing	21-06-2022

Size of aggregate		**Flakiness Index**		**Elongation Index**	
Passing through IS sieve, mm	**Retained on IS sieve, mm**	**Total wt. of aggregate retained on sieves (A) gms.**	**Wt. of aggregate passing from Flakiness gauge (B) gms**	**Wt. of aggregate retained on Flakiness gauge (C) gms**	**Wt. of aggregate retained on Elongation gauge after retained on Flakiness gauge(D)gms**
63.0	50.0	0	0	0	0
50.0	40.0	0	0	0	0
40.0	31.5	0	0	0	0
31.5	25.0	0	0	0	0
25.0	20.0	0	0	0	0
20.0	16.0	951	85	962	72
16.0	12.5	1308	112	1241	120
12.5	10.0	523	78	436	58
10.0	6.3	498	68	425	60
Total		**3280**	**343**	**3064**	**310**

Note: Minimum 200 Pcs should be taken on each fraction of test

Flakiness Index(%):	10.46
Elongation Index(%):	10.12
Combined FI+EL (%)	20.57

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Executive Engineer
Project Division
Bangalore Zone
Bangalore - 92

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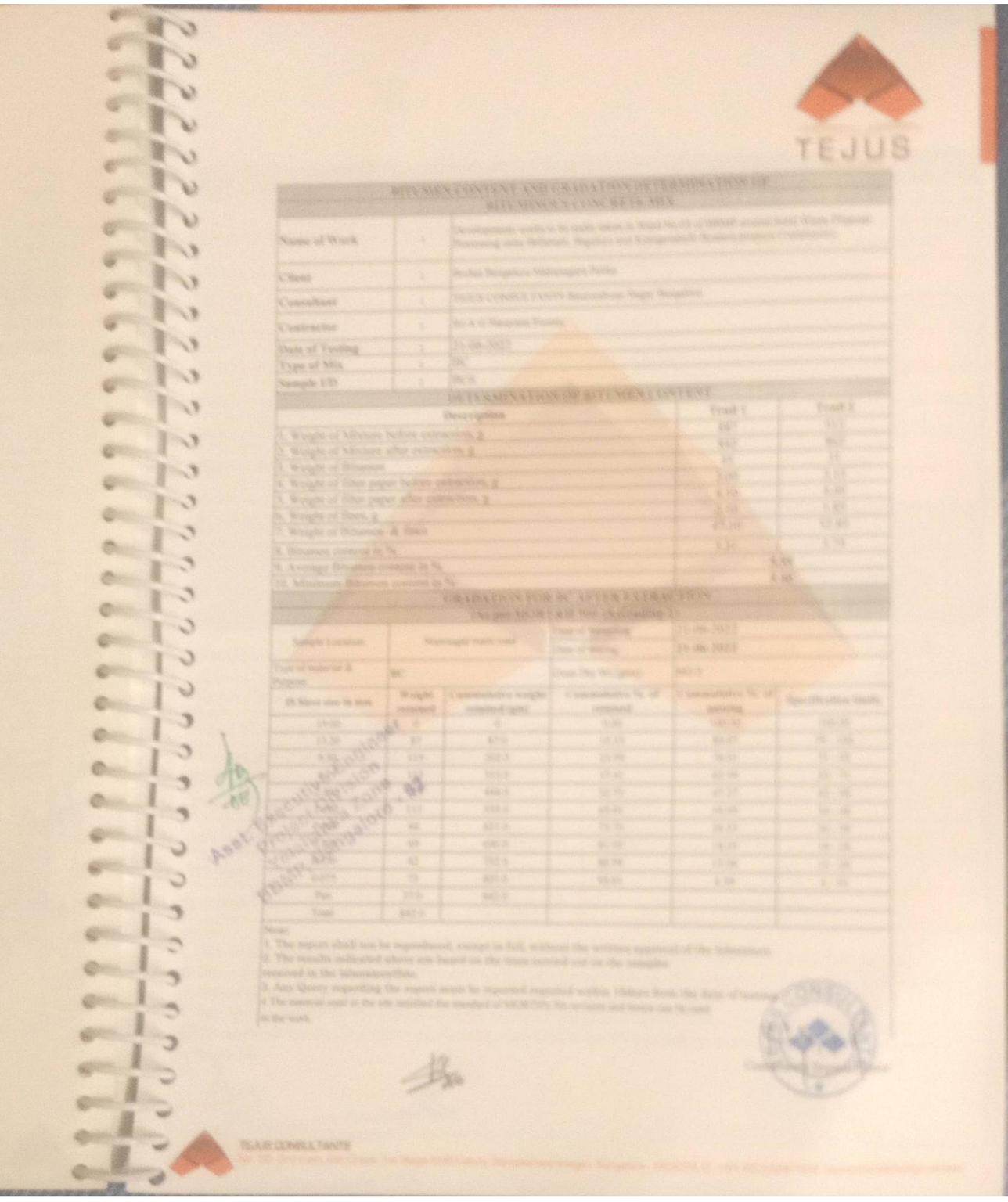

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BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

Name of Work	:	Accommodation works in the south leaves in Ward No.151 of HBMP around Solid Waste Disposal Processing units Hullimavu, Begehalli and Kothiganahalli Revenue jurisdiction, Uttarahalli.
Client	:	Bruhat Bengaluru Mahanagara Palike
Consultant	:	TEJUS CONSULTANTS Basaveshwara Nagar, Bengaluru
Contractor	:	M/s A.G. Manjunath Reddy
Date of Testing	:	23-06-2022
Type of Mix	:	DC
Sample I.D	:	DC 9

DETERMINATION OF BITUMEN CONTENT

Description	Trial 1	Trial 2
1. Weight of Mixture before extraction, g	500	500
2. Weight of Mixture after extraction, g	475	476
3. Weight of Bitumen	25	24
4. Weight of filter paper before extraction, g	3.00	3.00
5. Weight of filter paper after extraction, g	3.00	3.00
6. Weight of Dust, g	22.00	22.00
7. Weight of Bitumen & Dust	47.00	47.00
8. Bitumen content in %	5.00	4.80
9. Average Bitumen content in %	4.90	
10. Minimum Bitumen content in %	4.80	

GRADATION FOR DC AFTER EXTRACTION

As per MORTH 5th Rev. (According to

Sample Location	Veeranagar waste yard	Date of sampling	23-06-2022
Type of material & Purpose	DC	Date of testing	24-06-2022
Wet Sieve Analysis	Weight retained	Cumulative weight retained (gm)	Cumulative % of retained	Cumulative % of passing	Specification limits
19.00	0	0	0.00	100.00	100.00
13.20	85	85.0	18.43	81.57	79 - 100
9.50	115	200.0	43.38	56.62	52 - 80
4.75	110	310.0	67.24	32.76	35 - 65
2.36	80	390.0	84.60	15.40	17 - 47
1.18	33	423.0	91.76	8.24	7 - 29
0.600	12	435.0	94.36	5.64	3 - 19
0.300	6	441.0	95.66	4.34	2 - 13
0.150	4	445.0	96.53	3.47	1 - 9
0.075	3	448.0	97.18	2.82	0 - 6
Pan	13	461.0			
Total	461.0				

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4. The material used in the site satisfied the standard of MORTH's, for revision and hence can be used in the work.

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DETERMINATION OF RATE OF SPREAD TACK COAT

Name of Work :	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client :	BRUHAT BANGALORE MAHANAGARA PALIKE
Consultant :	M/s Tejus Consultants
Contractor :	Sri.A G Narayana Swamy.
Date of Testing :	21-06-2022
Type of Mix :	Tack coat
Sample I/D :	4
Location :	Noornagar Main Road

Determination	Unit	Test No		
		1	2	3
Location :	**Chainage**	**@15**	**@30**	**@50**
Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30	0.30 x .30
Area of Plate (a)	Sq.mtr	0.09	0.09	0.09
Initial Wt of empty Plate (b)	Kg	0.787	0.791	0.803
Final weight of plate after application of tack Coat (c)	Kg	0.810	0.814	0.826
Weight of tack Coat (d=c-b)	Kg	0.023	0.023	0.023
Rate of spread of tack coat	Kg/sq.m	0.253	0.253	0.254
Average	Kg/sq.m	0.254		
Specified Limit	Kg/sq.m	**0.250 Kg/sq.m**		

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Asst. Executive Engineer
Yelahanka Zone
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TEJUS CONSULTANTS

Authorised Signatory

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Project	Developments works to be under taken in Ward No.05 of BBMP around Solid Waste Disposal Processing units Bellahalli, Bagaluru and Kattigenahalli Byatarayanapura Constituency.
Client	Bruhat Bengaluru Mahanagara Palike
Consultant	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri.A G Narayana Swamy.

AGGREGATE IMPACT VALUE (IS: 2386 Part - 4)

Proposed Use	BC	**Date of Sampling**	21-06-2022
Sample Location	At plant	**Date of Testing**	21-06-2022

Sl. No.	Description		Test No. 1	Test No. 2	Test No. 3	Spec Limit (%)
1	Wt. of stone pieces (dry) passing IS Sieve 12.5mm but retained in IS sieve 10mm (gm)	(Wa)	376.00	363.00	341.00	
2	Wt. of the fraction retained in IS sieve 2.36mm after the impact test (gm)	(Wb)	282.00	271.00	257.00	
3	Wt. of the fraction passed in IS sieve 2.36mm after the impact test (gm)	(Wc)	94.00	92.00	84.00	
4	Aggregate Impact Value (%)	(Wc/Wa)*100	25.00	25.34	24.63	
5	Average Aggregate impact value	(%)	24.99			Max - 30 %

Remarks : ✓ Satisfactory / Not Satisfactory

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